

Alkalies and Chlorine Manufacturing: 2002

Issued December 2004

EC02-311-325181 (RV)

2002 Economic Census

Manufacturing

Industry Series



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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
325181, Alkalies and chlorine manufacturing	2002..	40	6 022	372 322	4 217	8 955	248 677	1 247 682	1 461 030	2 701 946	'113 613
	2001..	N	4 693	285 999	3 256	6 620	186 334	1 065 528	1 191 746	2 310 820	121 542
	2000..	N	4 891	300 311	3 436	7 160	198 723	1 272 431	1 290 880	2 547 560	176 739
	1999..	N	4 878	277 595	3 447	7 257	187 784	1 227 178	1 103 843	2 369 204	204 860
	1998..	N	4 899	279 018	3 377	6 915	179 906	1 443 181	991 396	2 449 207	227 443
	1997..	26	4 859	272 779	3 348	7 085	175 560	1 421 798	1 064 748	2 465 183	284 549

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
325181, Alkalies and chlorine manufacturing												
United States.....	—	40	27	6 022	372 322	4 217	8 955	248 677	1 247 682	1 461 030	2 701 946	113 613
Louisiana	—	4	3	1 836	107 617	1 189	2 701	63 721	368 652	562 579	927 032	35 195

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
325181, Alkalies and chlorine manufacturing	
Companies ¹	number.. 26
All establishments ²	number.. 40
Establishments with 1 to 19 employees	number.. 13
Establishments with 20 to 99 employees	number.. 8
Establishments with 100 employees or more	number.. 19
All employees ³	number.. 6 022
Total compensation	\$1,000.. 504 204
Annual payroll	\$1,000.. 372 322
Total fringe benefits	\$1,000.. 131 882
Production workers, average for year	number.. 4 217
Production workers on March 12	number.. 4 303
Production workers on May 12	number.. 4 229
Production workers on August 12	number.. 4 181
Production workers on November 12	number.. 4 155
Production worker hours	1,000.. 8 955
Production worker wages	\$1,000.. 248 677
Total cost of materials	\$1,000.. 1 461 030
Materials, parts, containers, packaging, etc., used	\$1,000.. 649 106
Resales	\$1,000.. 47 585
Purchased fuels	\$1,000.. 336 357
Purchased electricity	\$1,000.. 394 729
Contract work	\$1,000.. 33 253
Quantity of electricity purchased for heat and power	1,000 kWh.. 12 096 508
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 5 043 352
Total value of shipments	\$1,000.. 2 701 946
Primary products value of shipments	\$1,000.. 2 069 472
Secondary products value of shipments	\$1,000.. 560 860
Total miscellaneous receipts	\$1,000.. 71 614
Value of resales	\$1,000.. 71 386
Contract receipts	\$1,000.. -
Other miscellaneous receipts	\$1,000.. 228
Primary products specialization ratio	percent.. 79
Value of primary products shipments made in all industries	\$1,000.. 2 792 886
Value of primary products shipments made in this industry	\$1,000.. 2 069 472
Value of primary products shipments made in other industries	\$1,000.. 723 414
Coverage ratio	percent.. 74
Value added	\$1,000.. 1 247 682
Total inventories, beginning of year	\$1,000.. 204 234
Finished goods inventories	\$1,000.. 86 087
Work-in-process inventories	\$1,000.. 1 893
Materials and supplies inventories	\$1,000.. 116 254
Total inventories, end of year	\$1,000.. 214 218
Finished goods inventories	\$1,000.. 92 341
Work-in-process inventories	\$1,000.. 2 405
Materials and supplies inventories	\$1,000.. 119 472
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '4 372 317
Total capital expenditures (new and used)	\$1,000.. '113 613
Buildings and other structures (new and used)	\$1,000.. '8 935
Machinery and equipment (new and used)	\$1,000.. '104 678
Automobiles, trucks, etc., for highway use	\$1,000.. '573
Computers and peripheral data processing equipment	\$1,000.. '1 211
All other expenditures for machinery and equipment	\$1,000.. '102 894
Total retirements	\$1,000.. '50 699
Gross value of depreciable assets at end of year	\$1,000.. '4 435 231
Depreciation charges during year	\$1,000.. '190 973
Total rental payments	\$1,000.. 13 039
Buildings and other structures	\$1,000.. 1 014
Machinery and equipment	\$1,000.. 12 025
Total other expenses ⁴	\$1,000.. 173 018
Response coverage ratio ⁵	percent.. 94
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 63 792
Communications services ⁴	\$1,000.. 2 086
Legal services ⁴	\$1,000.. 630
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. D
Advertising and promotional services ⁴	\$1,000.. D
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 2 662
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 8 341
Management consulting and administrative services ⁴	\$1,000.. D
Taxes and license fees ⁴	\$1,000.. 32 764
All other expenses ⁴	\$1,000.. 60 330

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
325181, Alkalies and chlorine manufacturing											
All establishments	—	40	6 022	372 322	4 217	8 955	248 677	1 247 682	1 461 030	2 701 946	'113 613
Establishments with—											
1 to 4 employees	8	7	19	1 217	15	27	808	3 663	4 162	7 825	'255
5 to 9 employees	5	2	a	D	D	D	D	D	D	D	D
10 to 19 employees	2	4	52	3 008	40	84	2 300	7 924	9 471	18 628	'381
20 to 49 employees	4	7	246	12 245	182	391	7 902	46 974	58 047	105 390	'3 620
50 to 99 employees	—	1	b	D	D	D	D	D	D	D	D
100 to 249 employees	—	12	1 901	122 858	1 196	2 571	75 362	450 303	537 331	980 306	'46 930
250 to 499 employees	—	5	1 571	102 006	1 244	2 538	78 758	343 477	320 795	662 492	'39 779
500 to 999 employees	—	1	f	D	D	D	D	D	D	D	D
1,000 to 2,499 employees	—	1	g	D	D	D	D	D	D	D	D
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	7	34	2 239	26	49	1 492	6 689	7 874	14 563	'482

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
325181	Alkalies and chlorine manufacturing . . .	40	6 022	372 322	4 217	8 955	248 677	1 247 682	1 461 030	2 701 946	'113 613
3251811	Chlorine, compressed or liquefied . .	5	974	62 700	721	1 465	45 726	201 244	268 562	463 396	'29 235
3251814	Sodium hydroxide (caustic soda) . . .	14	4 250	263 669	2 911	6 235	171 027	834 902	934 749	1 770 913	'75 686
3251817	Other alkalies	9	705	41 335	512	1 107	28 914	198 843	242 473	439 697	'7 759

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
325181	Alkalies and chlorine manufacturing	2002.. N 1997.. N	X X	X X	2 792 886 3 081 950
3251811	Chlorine, compressed or liquefied	2002.. N 1997.. N	X X	X X	971 884 1 223 456
32518111	Chlorine, compressed or liquefied	2002.. N 1997.. N	X X	X X	971 884 1 223 456
3251811100	Chlorine, compressed or liquefied	2002.. 22 1997.. 17	X X	X X	971 884 1 223 456
3251814	Sodium hydroxide (caustic soda)	2002.. N 1997.. N	X X	X X	1 356 924 1 446 405
32518141	Sodium hydroxide (caustic soda)	2002.. N 1997.. N	X X	X X	1 356 924 1 446 405
3251814100	Sodium hydroxide (caustic soda)	2002.. 25 1997.. 29	X X	X X	1 356 924 1 446 405
3251817	Other alkalies	2002.. N 1997.. N	X X	X X	437 930 389 286
32518171	Other alkalies	2002.. N 1997.. N	X X	X X	437 930 389 286
3251817100	Other alkalies	2002.. 18 1997.. 15	X X	X X	437 930 389 286
325181W	Alkalies and chlorine manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	26 148 22 803
325181WY	Alkalies and chlorine manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	26 148 22 803
325181WYWW	Alkalies and chlorine manufacturing, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	12 846 104
325181WYWY	Alkalies and chlorine manufacturing, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	13 302 22 699

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3251811	Chlorine, compressed or liquefied	
	United States..... 2002..	971 884
	..... 1997..	1 223 456
	Louisiana 2002..	371 550
	..... 1997..	396 406
3251814	Sodium hydroxide (caustic soda)	
	United States..... 2002..	1 356 924
	..... 1997..	1 446 405
	Louisiana 2002..	508 055
	..... 1997..	588 170
3251817	Other alkalis	
	United States..... 2002..	437 930
	..... 1997..	389 286

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
325181	Alkalies and chlorine manufacturing		
00900001	Total materials .....2002..	X	649 106
	.....1997..	X	471 732
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄) .....1,000 s tons..2002..	53.5	2 707
	.....1997..	P53.5	3 284
32518105	Sodium carbonate (soda ash) (58 percent Na ₂ O) .....1,000 s tons..2002..	D	D
	.....1997..	D	D
00190031	Salt in brine .....1,000 s tons..2002..	1 802.2	97 315
	.....1997..	5 664.3	67 912
325000A5	Other industrial inorganic chemicals.....2002..	X	40 085
	.....1997..	X	D
21200000	Crude chemical nonmetallic minerals (bauxite, phosphate rock, sulfur, barite, borate, potash, fluorspar, rock salt, etc.) .....2002..	X	42 805
	.....1997..	X	N
33300015	Parts and attachments for machinery and equipment .....2002..	X	79 075
	.....1997..	X	22 297
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	23 811
	.....1997..	X	D
33240000	Metal containers .....2002..	X	D
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	283 749
	.....1997..	X	230 937
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	57 202
	.....1997..	X	56 327

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.